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- Representative: Sheard, Andrew Gregory et al. Kilburn & Strode 30, John Street London WC1N 2DD(GB)
- Predicting predisposition to osteoporosis.
- Means are provided for use in a method of providing a diagnostic indicia which is predictive of the risk of a non-osteoporotic human being contracting osteoporosis as a consequence of being in a long-term hormonally agonadal state, which comprises the steps of determining the average ratio of calcium to creatinine in the urine or in the blood of that person, during a period when the person is ingesting only foodstuff sources of calcium and vitamin D, while in a hormonally gonadal state, and also while in a hormonally agonadal state; determining the magnitude of the difference in the ratio obtained in the latter state compared to the former state, a large difference being predictive of a high risk of that person contracting osteoporosis.



EUROPEAN SEARCH REPORT

EP 86 30 7458

Category		dication, where appropriate,	Relev	ant (LASSIFICAT	TION OF THE
Х	DATABASE PASCAL, vol reference 82289550, 575-581; C. CHRISTI/ "Factors in response early postmenopausa	1. 33, no. 6, 1981, pages ANSEN et al.: e to treatment of	1,7		G 01 N G 01 N G 01 N	33/84 33/68
X	CALCIF. TISSUE INT. CHEMICAL ABSTRACTS, 18th January 1982, abstract no. 16923w; US; J.L. SEBERT et	1981, 33(6) vol. 96, no. 3, page 189, column 2, Columbus, Ohio, al.: "Fasting f calcium, phosphate in relation to values and 4-hour urine	1			
P,X	CHEMICAL ABSTRACTS, vol. 105, no. 1, 7th July 1986, page 525, column 2, abstract no. 5477g, Columbus, Ohio, U E.C.H. VAN BERESTEYN et al.: "Design and data quality of a mixed longitudinal study to elucidate the role of dietary calcium and phosphoru on bone mineralization in pre-, periand postmenopausal women", & AM. J. CLIN. NUTR. 1986, 43(4) 538-548		1,7		TECHNICAI SEARCHED G 01 N	(Int. Cl.4)
L,X	CHEMICAL ABSTRACTS, 9th November 1987, abstract no. 173687 US; R. LI et al.: " fasting urine calci in postmenopausal w FUCHANKE ZAZHI (BEI 346-348	page 521, column 1, k, Columbus, Ohio, Relationship of um to estrogen level omen", & ZHONGHUA	1,7			
	The present search report has b				,	
Place of search BERLIN		Date of completion of the search 02-12-1987	GREEN C.H.			
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure		E : earlier patent d after the filing other D : document cited	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons A: member of the same patent family, corresponding			

EUROPEAN SEARCH REPORT

Application Number

EP 86 30 7458

Category	Citation of document with in of relevant pas	dication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. CL 4)			
A	CHEMICAL ABSTRACTS, 17th August 1981, pa	vol. 95, no. 7, age 559, columns 1, B3r, Columbus, Ohio, he influence of phosphorus on bone	1,7				
A	US-A-3 771 961 (J.1 * column 1, lines 1		1,7				
A	EP-A-O 067 041 (WAINDUSTRIES LTD.) * page 1 complete,		1,7				
A	CLINICAL CHENISTRY, July 1980, pages 111 Winston-Salem, US; "Creatinine: A revi * pages 1119-1126 *	9-1126, S. NARAYANAN et al: ew"	1,7	-			
				TECHNICAL FIELDS SEARCHED (Int. Cl.4)			
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	The present search report has b	oon daawa uu 611 -1					
	Place of search	Date of completion of the search		Examiner			
BERLIN		02-12-1987		GREEN C.H.			
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background		E : earlier pater after the file other D : document c L : document ci	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons				
Y: particularly relevant if combined with another document of the same category		after the file ther D: document of L: document of	after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding				

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